Material: ASTM B 649 N08925

Standard Specification for Ni-Fe-Cr-Mo-Cu Low-Carbon Alloy, Ni-Fe-Cr-Mo-Cu-N Low-Carbon Alloys and Cr-Ni-Fe-N Low-Carbon Alloy Bar and Wire

Group: *Non-Ferrous Nickel Alloys*

Sub Group: *ASTM B 649 N08925 Ni-Fe-Cr-Mo-Cu Low-Carbon Alloy, Ni-Fe-Cr-Mo-Cu-N Low-Carbon Alloys and Cr-Ni-Fe-N Low-Carbon Alloy Bar and Wire*

Application: *Intended for Valve, Pump, General Engineering, Automotive and other Industries*

Grade Belongs to the Industry: *Bar and Wire*

Chemical Composition		
Carbon	C %	0.020 max.
Silicon	Si %	0.500 max.
Manganese	Mn %	1.000 max.
Chromium	Cr %	19.000 - 21.000
Sulphur	S %	0.030 max.
Molybdenum	Mo %	6.000 - 7.000
Phosphorus	P %	0.045 max.
Copper	Cu %	0.800 - 1.500
Nitrogen	N %	0.100 - 0.200
Nickel	Ni %	24.000 - 26.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Annealing or Age Hardning

Mechanical Properties	
Tensile Strength in Mpa	600 min.
Yield Strength in Mpa	300 min.
Elongation in %	40 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A 182 F1925	ASTM	USA	Pipe Flanges, Forged Fittings and Valve
B 625 N08925	ASTM	USA	Plate, Sheet and Strip
B 673 N08925	ASTM	USA	Pipe
B 674 N08925	ASTM	USA	Tube
B 677 N08925	ASTM	USA	Pipe and Tube
SB-625 N08925	ASME	USA	Plate, Sheet and Strip
SB-649 N08925	ASME	USA	Bar and Wire

Customer Care: +91-99090 45075 Email: info@icastllp.com